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Dated: 8-20-04

Signature: *John Class*

JFW
Docket No.: SION-P01-030
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Patent Application of:
Miller et al.

Confirmation No. 9247

Application No.: 10/684332

Group Art Unit: 1744

Filed: October 10, 2003

Examiner: Not Yet Assigned

For: NOx MONITOR USING DIFFERENTIAL
MOBILITY SPECTROMETRY

CHANGE OF ATTORNEY DOCKET NUMBER

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Please note that the Attorney Docket Number has been changed from 3239.1039-001 to **SION-P01-030**. Please reference **SION-P01-030** on all future correspondence.

Applicants believe no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 18-1945, under Order No. SION-P01-030 from which the undersigned is authorized to draw.

Dated: August 20, 2004

Respectfully submitted,

By *Agnes S. Lee*

Agnes S. Lee

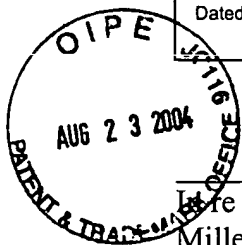
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Dated: August 20, 2004 Signature: Lauren Class

Docket No.: SION-P01-030
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ex Parte Patent Application of:
Miller et al.

Application No.: 10/684,332

Confirmation No.: 9247

Filed: October 10, 2003

Art Unit: 1744

For: NOx MONITOR USING DIFFERENTIAL
MOBILITY SPECTROMETRY

Examiner: N/A

INFORMATION DISCLOSURE STATEMENT (IDS)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

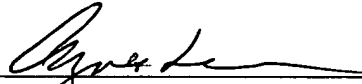
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. SION-P01-030. A duplicate copy of this paper is enclosed.

Dated: August 20, 2004

Respectfully submitted,

By 
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PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/684332
				Filing Date	October 10, 2003
				First Named Inventor	Raanan A. Miller
				Art Unit	1744
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	SION-P01-030

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (# known)			
	A1	2,615,135	10/21/52	Glenn	
	A2	3,511,986	05/12/70	Llewellyn	
	A3	3,619,605	11/09/71	Cook, et al.	
	A4	3,621,240	11/15/71	Cohen, et al.	
	A5	3,931,589	01/06/76	Aisenberg, et al.	
	A6	4,025,818	05/24/77	Giguere, et al.	
	A7	4,163,151	07/31/79	Bayless, et al.	
	A8	4,201,921	05/06/80	McCorkle	
	A9	5,144,127	09/01/92	Williams, et al.	
	A10	5,218,203	06/08/93	Eisele, et al.	
	A11	5,420,424	05/30/95	Carnahan, et al.	
	A12	5,455,417	10/03/95	Sacristan	
	A13	5,536,939	07/16/96	Freidhoff, et al.	
	A14	5,654,544	08/05/97	Dresch	
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	A16	5,763,876	06/09/98	Perinarides, et al.	
	A17	5,789,745	08/04/98	Martin, et al.	
	A18	5,801,379	09/01/98	Kouznetsov	
	A19	5,834,771	11/10/98	Yoon, et al.	
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	A21	5,965,882	10/12/99	Megerle, et al.	
	A22	6,066,848	05/23/00	Kassel, et al.	
	A23	6,124,592	09/26/00	Spangler	
	A24	6,323,482	11/17/01	Clemmer, et al.	
	A25	6,495,823	12/17/02	Miller, et al.	
	A26	6,504,149	01/07/03	Guevremont, et al.	
	A27	6,512,224	01/28/03	Miller, et al.	
	A28	6,621,077	09/16/03	Guevremont, et al.	
	A29	US 2001/0030285 A1	10/18/01	Miller, et al.	
	A30	US 2003/0089847 A1	5/15/03	Guevremont, et al.	
	A31	US 2002/0134932 A1	9/26/02	Guevremont, et al.	
	A32	US 2003/0020012 A1	1/30/03	Guevremont, et al.	
	A33	US 2003/0038235 A1	2/27/03	Guevremont, et al.	
	A34	US 2002/0070338 A1	6/13/02	Loboda	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	WO 96/19822	06/27/1996	The Secretary of State for Defence		
-	B2	WO 00/08454	02/17/2000	National Research Council Canada		
	B3	WO 00/08455	02/17/2000	National Research Council Canada		
	B4	WO 00/08456	02/18/2000	National Research Council Canada		

Examiner Signature		Date Considered	
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/684332
				Filing Date	October 10, 2003
				First Named Inventor	Raanan A. Miller
				Art Unit	1744
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	SION-P01-030

	B5	WO 00/08457	02/19/2000	National Research Council Canada		
	B6	SU 966583	10/15/1982	Gorshkov, M.P.		
	B7	SU 1337934A2	09/15/1987	Buryakov, I.		
	B8	SU 1412447A1	06/20/1998	Buryakov, I., et al.		
	B9	SU 1485808	10/06/1998	Buryakov, I., et al.		
	B10	SU 1627984A2	07/20/1988	Buryakov, I.		
	B11	WO 01/08197A1	02/01/2001	The Charles Stark Draper Laboratory		
	B12	WO 01/22049A2	03/29/2001	Haley, L., et al.		
	B13	WO 01/35441A1	05/17/2001	The Charles Stark Draper Laboratory		
	B14	WO 01/69220A2	09/09/2001	National Research Council Canada		
	B15	WO 01/69647A2	09/20/2001	National Research Council Canada		
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	B17	WO 02/083276A1	10/24/2002	The Charles Stark Draper Laboratory		
	B18	WO 03/005016A1	01/16/2003	Sionex Corporation		
	B19	WO 03/015120A1	02/20/2003	Sionex Corporation		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	C1	"A Micromachined Field Driven Radio Frequency-Ion Mobility Spectrometer for Trace Level Chemical Detection," A Draper Laboratory Proposal Against the "Advanced Cross-Enterprise Technology Development for NASA Missions," Solicitation, NASA NRA 99-OSS-05.		
	C2	BARNETT, D.A. et al., "Isotope Separation Using High-Field Asymmetric Waveform Ion Mobility Spectrometry," Nuclear Instruments & Methods in Physics Research (2000), pp 179-185, 450(1).		
	C3	BURYAKOV, I.A. et al., "Separation Ions According to Mobility in a Strong ac electric Field," Sov. Tech. Phs. Lett. (1991), pp 446-447, 17(6).		
	C4	BURYAKOV, I.A. et al., Device and Method For Gas Electrophoresis, Chemical Analysis of Environment, edit. Prof. V.V. Malakhov, Novosibirsk; Nauka (1991), pp 113-127.		
	C5	BURYAKOV, I.A. et al., "A New Method of Separation of Multi-Atomic Ions by Mobility at Atmospheric Pressure Using a High-Frequency Amplitude-Asymmetric Strong Electric Field," International Journal of Mass Spectrometry and Ion Processes (1993), pp 143-148, 128.		
	C6	CARNAHAN, B. et al., "Field Ion Spectrometry – A New Analytical Technology for Trace Gas Analysis," ISA, (1996), pp 87-96, 51(1).		
	C7	CARNAHAN, B. et al., "Field Ion Spectrometry – A New Technology for Cocaine and Heroin Detection," SPIE, (1997), pp 106-119, 2937.		
	C8	EICEMAN, G.A., et al., "Miniature radio-frequency mobility analyzer as a gas chromatographic detector for oxygen-containing volatile organic compounds, pheromones, and other insect attractants," J. Chromatography, (2001), pp 205-217, 917.		
	C9	GUEVREMONT, R. and PURVES, R., "High Field Asymmetric Waveform Ion Mobility		

Examiner Signature		Date Considered	
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	SION-P01-030

		Spectrometry-Mass Spectrometry: An Investigation of Leucine Enkephalin Ions Produced by Electrospray Ionization," J. Am. Soc. Mass. Spectrom. (1999), pp 492-501, 10.	
	C10	GUEVREMONT, R. et al., "Calculation of Ion Mobilities From Electrospray Ionization High Field Asymmetric Waveform Ion Mobility Spectrometry Mass Spectrometry," Journal of Chemical Physics, (2001), pp 10270-10277, 114(23).	
	C11	GUEVREMONT, R. et al., "Atmospheric Pressure Ion Focusing in a High-Field Asymmetric Waveform Ion Mobility Spectrometer," Review of Scientific Instruments, (1999), pp 1370-1383, 70(2).	
	C12	HANDY, Russell et al., "Determination of nanomolar levels of perchlorate in water by ESI-FAIMS-MS," JAAS (2000), pp 907-911, 15	
	C13	HATHOUT, Y., et al., "Identification of Bacillus Spores by Matrix-Assisted Laser Desorption Ionization Mass Spectrometry," Appl. Environ. Microbiol. 65(10):4313-4319 (1999).	
	C14	KRYLOV, E.V., "A Method of Reducing Diffusion Losses in a Drift Spectrometer," Technical Physics, (1999), pp 113-16, 4d(1).	
	C15	KRYLOV, E.V., "Pulses of Special Shapes Formed on a Capacitive Load," Instruments and Experimental Techniques, (1997), pp 628, 40(5).	
	C16	MILLER, R.A. et al., "A MEMS Radio-Frequency Ion Mobility Spectrometer for Chemical Agent Detection," (June 2000) Proceedings of the 2000 Solid State Sensors and Actuators Workshop, Hilton Head, SC.	
	C17	MILLER, R.A. et al., "A MEMS radio-frequency ion mobility spectrometer for chemical vapor detection," Sensors and Actuators, (2001), pp 301-12, A91.	
	C18	MILLER, R.A. et al., "A Novel Micromachined High-Field Asymmetric Waveform-Ion Mobility Spectrometer," Sensors and Actuators B, (2000) pp 300-306, B67 (3).	
	C19	PILZECKER, P. et al., "On-Site Investigations of Gas Insulated Substations Using Ion Mobility Spectrometry for Remote Sensing of SF6 Decomposition," IEEE, (2000), pp 400-403.	
	C20	RIEGNER, D.E. et al., "Qualitative Evaluation of Field Ion Spectrometry for Chemical Warfare Agent Detection," Proceedings of the ASMS Conference on Mass Spectrometry and Allied Topics (June, 1997), pp 473A-473B.	
	C21	SCHNEIDER, A. et al., "High Sensitivity GC-FIS for Simultaneous Detection of Chemical Warfare Agents," Mine Safety Appliances Co., Pittsburgh, PA, USA, (2000), AT-Process, pp 124-136, 5(3,4), CODEN: APJCFR ISSN: 1077-419X.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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9519120_1

Application No. (if known): 10/684332

Attorney Docket No.: SION-P01-030

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Information Disclosure Statement (2 pages)
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